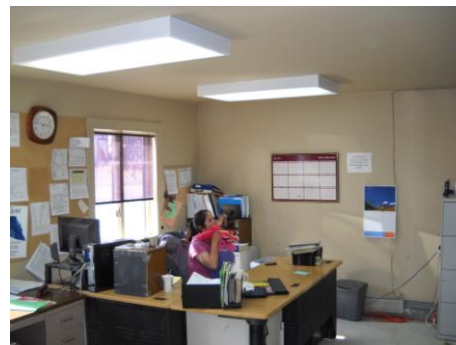


BBNA Tribal Energy Efficiency & Conservation Block Grant Program

Administered by Alaska Building Science Network

Koliganek Final Report



Community Summary

One (1) community building owned by the New Koliganek Village Council received energy efficient weatherization and heating upgrades:

Community Building

Retrofits Completed: August 2012

Village-Wide Energy Efficient Weatherization and Heating Retrofit Summary:

Total Building Savings All Measures:

- | | |
|---|----------------------------|
| • Projected Annual Fuel Savings (gallons): | 818 |
| • Total Projected Annual Energy Cost Savings: | \$4,663¹ |
| • Total village wide In-kind contribution: | \$1,306 |
| • Total project cost including In-kind contributions: | \$36,475 |
| • Simple Payback (including In-kind contributions): | 7.82 years |

¹ #2 Heating Fuel Rate [used to calculate heating fuel savings] (AkWarm Library): \$5.70/gal

Community Building

Weatherization/Heating Retrofit Summary:



Materials Installed

Replaced original oil fired boiler with on-demand efficient boiler and efficient space heater

Replaced existing man doors with standard pre-hung U-0.16 insulated doors

Air seal to reduce air leakage; added insulation

Replaced existing windows with U-0.22 vinyl windows

-
- | | |
|---|----------------|
| • Pre-retrofit energy use: | 1,964 gallons |
| • Post-retrofit energy: | 1,146 gallons |
| • Annual energy savings projection: | 18 gallons |
| • Pre-retrofit to post retrofit energy reduction: | 42% percent |
| • Estimated Annual Heating Fuel Cost Savings: | \$4,663 |